International application No.

PCT/SE 2005/000004

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: CO7D 215/38, CO7D 401/12, CO7D 409/12, CO7D 417/12, A61K 31/47, A61K 31/4709, A61P 3/04, A61P 25/18, A61P25/24, A61P25/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: CO7D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, CHEM. ABS DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	WO 02058702 A1 (SMITHKLINE BEECHAM CORPORATION), 1 August 2002 (01.08.2002), see example 20, page 17, example 40d, page 23	1-14,16-18
P,X	EP 1464335 A2 (TAISHO PHARMACEUTICAL CO. LTD.), 6 October 2004 (06.10.2004)	1-14,16-18
Х	Jarvest, Richard L. et al, "Conformational Restriction of Methionyl tRNA Synthetase Inhibitors Leading to Analogues with Potent Inhibition and Excellent Gram-Positive Antibacterial Activity", Bioorganic & Medicinal Chemistry Letters, 2003, vol. 13, page 1265 - page 1268, see compounds 15 and 25, page 1226	18

i			
X	Further documents are listed in the continuation of Box	C. See patent family annex.	
*	Special categories of cited documents:	"T" later document published after the international filing date or priority	
"A"	document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
"L"	document which may throw doubts on priority claim(s) or which is	step when the document is taken alone	
1	cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be	
"0"	document referring to an oral disclosure, use, exhibition or other means	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P"	document published prior to the international filing date but later than	"&" document member of the same patent family	
	the priority date claimed	& document member of the same patent family	
Date of the actual completion of the international search Date of mailing of the international search report		Date of mailing of the international search report	
23	May 2005	9 0 05 2005	
23	nay 2000	2 3 -05- 2005	
Nan	Name and mailing address of the ISA/ Authorized officer		

Eva Johansson/EÖ

Telephone No. + 46 8 782 25 00

Form PCT/ISA/210 (second sheet) (January 2004)

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Swedish Patent Office

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: 15, 20 because they relate to subject matter not required to be searched by this Authority, namely:
Claims 15, 20 relate to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic
2. Claims Nos
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
The following separate inventions were identified:
I: Claims 1-18, 20 directed to compounds of formula I and their use for the treatment or prophylaxis of obesity, psychiatric and neurological disorders.
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable
claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of
any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
 No required additional search fees were timely paid by the applicant. Consequently, this international search report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-18, 20
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

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executed for the	39.1.(iv). Never nese claims. The of the compounds.	search has been	ch has been based on the

Form PCT/ISA/210 (extra sheet) (January 2004)

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PCT/SE 2005/000004

	PC1/3E 200	
C (Continu	nation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Х	WO 0247456 A2 (SMITHKLINE BEECHAM CORPORATION), 20 June 2002 (20.06.2002), see example 2d, page 12	18
x	WO 9955677 A1 (SMITHKLINE BEECHAM PLC), 4 November 1999 (04.11.1999), see example 29a, page 26, 60c, page 43, 70d, page 51, 71d, page 52	18
Р,Х	WO 2004004726 A1 (ASTRAZENECA AB), 15 January 2004 (15.01.2004)	1-14,16-18

Information on patent family members

01/04/2005

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				US	20040030754		12/02/2004
				WO	2004087669	A 	14/10/2004
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				EP	1351687		15/10/2003
				JP	2004515507	T	27/05/2004
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				IL		D	00/00/0000
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				EP	1448988		25/08/2004
				SE	0202134	U	00/00/0000

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Box III

II: Claim 19 directed to one or more compounds from (1S, 3S)-dibenzyl-cyclohexane-1,3-diylbiscarbamate and (1S, 3S)-cyclohexane-1,3-diamine dihydrochloride.

A partial search has been carried out, which relates to the invention I mentioned above.

The present application has been considered to contain 2 inventions which are not linked such that they form a single general inventive concept, as required by Rule 13 PCT for the following reasons:

Claims 1-18, 20 relate to the problem of treatment of obesity, psychiatric and neurological disorders. This problem appears to be solved by compounds of formula I and their use for the treatment of said diseases/disorders.

Claim 19 relates to (1S, 3S)-dibenzyl-cyclohexane-1,3-diylbiscarbamate or (1S, 3S)-cyclohexane-1,3-diamine dihydrochloride, which can be used as the intermediate compounds.

In order to fulfil the requirements of unity of invention, it is necessary that the intermediate compounds are closely interconnected with the end products. Such close connection requires that the essential structural part of the end product is incorporated by the intermediate compound. However, the present application lacks a single general inventive concept based on the above principle. This leads to the presence of the subjects listed above, each falling under its own restricted inventive concept.

Consequently, the two groups of inventions are not so linked as to form a single general inventive concept as required by Rule 13.1 PCT.